

L 20443-66

ACC NR: AP6007744

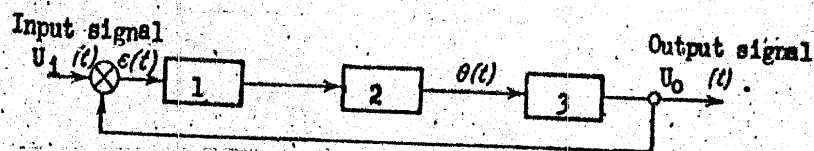


Fig. 1. Functional diagram of a tracking activity recorder

1 - Indicator; 2 - operator; 3 - object.

the Voskhod-2 crew did not undergo any drastic changes under the influence of the spaceflight. Even the 10 min EVA activity did not alter operator characteristics. There was also no significant change in operator reaction time. The data suggested that the duration of reliable work, which in the present study was maintained for nearly 13 min, is not altered. However, the study did show that operator activity concerned with incoming signals (frequency greater than 0.5 cps) was the most susceptible to spaceflight factors. It is felt that future, prolonged spaceflights will reveal how the stability of the cosmonaut who is acting as a vital link in a control system will change with respect to time, mission characteristics, and conditions. Orig. art. has: 6 figures and 1 table.

[CD]

SUB CODE: 05, 06/ SUBM DATE: 28Jul65/ ORIG REF: 002/ OTH REF: 010/ ATD PRESS:

4222

Card

2/2 BK

1-20443-66 EWT(d)/FSS-2/EWT(1)/EEG(1)-2/EWA(d) SCTB AST/TT/UD/RD/GW  
 ACC NR: AP6007744 SOURCE CODE: UR/0293/66/004/001/0137/0143

AUTHOR: ~~Belyayev, P. I.~~ Leonov, A. A.; Popov, V. A.; Khachatur'yants, L. S.; Filosofov, V. K. 29  
 13

ORG: none

TITLE: Some dynamic characteristics of the operator when tracking under Voskhod-2  
 spaceflight conditions 12

SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 1, 1966, 137-143

TOPIC TAGS: man machine factor, psychophysiology/Voskhod 2

ABSTRACT: The study was designed to determine the effects of the entire complex of physical and psychophysiological factors of spaceflight on the Voskhod-2 crew. Four situations were considered: 1) Training under normal conditions; 2) activity in a spacecraft mockup; 3) activity on the launch date; 4) activity during the actual spaceflight. The reaction of Belyayev and Leonov to visual tracking regimens of various frequencies was monitored and the data was statistically processed by a computer. The mode of recording tracking activity is shown in Fig. 1. Using this system, it was possible to study the following operator characteristics: 1) the amplitude-frequency characteristic; 2) phase-frequency characteristic; 3) auto-correlation function; 4) cross-correlation function; 5) transition function and some other characteristics. The studies showed that the dynamic characteristics of

Card 1/2

UDC: 629.198.61

BELYAYEV, P.I., letchik-kosmonavt SSSR

Manual landing system worked perfectly. Av. i kosm. 47 no.5:82  
My '65. (MIRA 18:4)

KEIDYSH, M.V., akademik; BELIKOV, A.A., letchik-kosmonavt, podpolkovnik  
LEONOV, A.A., letchik-kosmonavt, podpolkovnik

Unprecedented scientific experiment in outer space, press  
conference on the new outstanding achievement of the Soviet  
people in mastering the outer space and the interplanetary  
the astronauts P.I. Belikov and A.A. Leonov, who were the  
first to achieve the exit of man into space from the cosmo-  
ship "Voskhod 2". Priroda 54, No. 10, 1968, p. 123.

1. Prezident AN SSSR (for Leonov). 2. Leningradskiy gosudarstvennyy  
"Voskhod-2" (for Belikov). 3. "A very first step into space"  
(for Leonov).

ACC NR: AP7004931

SOURCE CODE: UR/0315/66/000/010/0016/0017

AUTHOR: Belyayev, P. G. (Engineer)

ORG: Ya. M. Sverdlov Plant (Zavod im. Ya. M. Sverdlova)

TITLE: Punched card files in the technical information department of the plant

SOURCE: Nauchno-tekhnicheskaya informatsiya, no. 10, 1966, 16-17

TOPIC TAGS: card file, information center, information storage and retrieval, *PUNCHED*  
7/9/2/3

ABSTRACT: The punched card files in the technical information department of the plant are described. Five-card files were introduced in 1963-1965: borrowed measures, "technical plotting boards," "information cards," "technical articles of plant authors," and foreign terms. The last three of these are described in slight detail. Cards of format K-5 are used. The foreign-terms file contains 250 cards at the present time and is increasing rapidly. A mechanical selector is used to retrieve the cards. Orig. art. has: 2 photographs.

SUB CODE: 09/ SUBM DATE: none/ ORIG REF: 001

Card 1/1

BELYAYEV, P.G., inzh.

"Engineering data" card catalog of cards with perforated  
borders. NTI no. 7:30 '65. (MIRA 18:9)

1. BELYAYEV, P. G.; Hishardinskikh, P. G.
2. USSR (600)
7. Pneumatic semi-automatic for punching slots in Thin-Walled Objects,  
Machine Tools and Instruments No. 9, Sep 1950
9. Compilation of Information of the USSR Machine and Machine Tools Industry  
Contained in Soviet Publications. ~~XXXXXXXXXX~~

BELYAYEV, P. G.

PA 75T44

USER/Engineering  
Tools, Machine  
Machines, Milling

Jan 1948

"Pneumatic Semiautomatic Machine Tool for Cutting  
Grooves in Thin-Walled Parts," P. G. Belyayev and  
G. P. Mishurinskikh, 1 p

"Stanki 1 Instrument" No 1

Describes semiautomatic pneumatic machine designed to  
replace obsolete method of using a horizontal miller  
for notching thin walled parts. New machine is  
easier to operate and cuts production time to 1/16 of  
time required for notching by milling method.

10

75T44



1. 8438-65 EWT(1)/T DIF(6)/ASD(1)/AFWL/RAIR(1)

ACCESSION NO: AP404876

8/052/64/009/033/0541/0547

AUTHOR: Belyayev, E. A. (Moscow)

TITLE: Probability of the non-occurrence of a given number of outcomes

SOURCE: Teoriya veroyatnostey i yeye primeneniya, v. 9, no. 3, 1954, 541-547

TOPIC TAGS: probability, asymptotic behavior

Abstract:  $n$  trials are made, resulting in  $k$  outcomes. Each trial has one and only one outcome.  $P_{n,k}(m)$  is the probability that after  $n$  trials exactly  $m$  out of the  $k$  outcomes will not occur. The asymptotic behavior of  $P_{n,k}(m)$  is studied for fixed  $k$  and  $m$  and  $n \rightarrow \infty$ ,  $k$  fixed.

ASSOCIATION: none

SUBMITTED: 09Feb63

ENCL: 00

SUB CODE: NA

NO REF SOVL 002

OTHER: 002

JPRS

Card 1/1

On testing the randomness of sampling ... S/052/61/006/004/005/005  
C111/C222

where

$$\hat{p}_j^{(i)} = p_j^{(i)} - n \frac{k_i}{k}$$

Theorem 1 : If the hypothesis  $H_0$  is true, then the distribution of the random variable  $U_n$  tends for  $n \rightarrow \infty$  to the distribution of

$$U = \frac{k}{k-1} \chi^2_{(1-1)(s-1)} + \frac{k-1}{k-1} \chi^2_{(s-1)}$$

Here  $\chi^2_{(1-1)(s-1)}$  and  $\chi^2_{(s-1)}$  are independent random variables which are distributed with  $(1-1)(s-1)$  and  $(s-1)$  degrees of freedom according to the  $\chi^2$ -law.

Let  $p_j^{(i)}$  be the probability that by the  $j$ -th drawing an element of  $i$ -th type is obtained. Let  $H_1$  be an arbitrary hypothesis, according to which

Card 2/3

34780

S/052/61/006/004/005/005  
C111/C222

16.6100 16.6200

AUTHORS: Bavarov, Ye.A., Belyayev, P.F.

TITLE: On testing the randomness of sampling without replacement

PERIODICAL: Teoriya veroyatnostey i yeye primeneniye, v. 6, no. 4, 1961,  
455 - 458

TEXT: Let a set consist of  $k = k_1 + k_2 + \dots + k_s$  elements where  $k_m$  is the number of elements of the  $m$ -th type.  $n$ -selections with 1 element each are taken from the set without replacement. The choices are stochastically independent. Let  $\nu_j^{(i)}$  be the frequency of elements of the  $i$ -th type in the  $j$ -th place in all  $n$  selections. Let  $H_0$  be the hypothesis according to which all  $n$  selections are obtained by random sampling without replacement. Considered is the statistic

$$U_n = \sum_{i,j} \frac{k_i}{nk_i} \left[ \hat{\nu}_j^{(i)} \right]^2$$

Card 1/3

16(1), 16(2)

05796

AUTHORS: Babkin, V.I., Belyayev, P.F., and Maksimov, Yu.I. SOV/52-4-4-7/13

TITLE: Some Remarks on Goncharov's Paper "From the Domain of Combinatorics"

PERIODICAL: Teoriya veroyatnostey i yeye primeneniya, 1959, Vol 4, Nr 4, pp 445-450 (USSR)

ABSTRACT: In the sequence

(1)  $x_1, x_2, \dots, x_N$ let  $x_i (i=1, 2, \dots, N)$  assume either the value A or the value B.According to V.L. Goncharov [Ref 1] a running series of A-values is denoted as an A-series; the number of appearing A-values is called the length of a series. Let  $v_i (i=1, 2, \dots, k-1)$  be the number of A-series of the length i and  $v_k$  be the number ofA-series of the length k and longer in (1) ( $k \geq 1$  given number). Let (1) be a simple homogeneous Markov chain, where the matrix of the transition probabilities contains no zero elements. It is shown that the random vector  $(v_1, v_2, \dots, v_k)$  after a corresponding normalization is distributed asymptotically normal for great N.

Card 1/2

BELIAYEV, P.F. (Moscow)

Probability of the nonappearance of a given number of s-chains  
in composite Markov chains. Teor. veroiat. i ee prim. 10 no.3:  
547-551 '65. (MIRA 18:9)

MESHALKIN, Ye.N., prof.; BLAU, Yu.I.; BELYAYEV, P.A.

Clinical aspects and surgical treatment of tuberculous adhesive pericarditis. Probl. tub. 42 no.10:20-25 '64.

(MIRA 18:11)

1. Institut eksperimental'noy biologii i meditsiny (ispolnyayushchiy obyazannosti direktora- dotsent Yu.I. Borodin; nauchnyy rukovoditel'- prof. Ye.N. Meshalkin) Ministerstva zdravookhraneniya RSFSR, Novosibirsk.

CHAPLINSKIY, M.B.; SVERDLOV, A.K.; SHLYGINA, K.N.; BELYAYEV, P.A.; DEMCHUK,  
T.Ya.; VINOGRADOVA, P.A.; TSVIRKO, A.B.; VOTIN, Ye.A.; AGAFONOV, A.I.

Outbreak of an anginous form of erysipeloid. Zhur. mikrobiol., epid.  
i immun. 41 no.12:119 D '64. (MIRA 18:3)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

BEIYAYEV, P. M.; TOPUGAYEV, V. M.

Methodology of conducting and evaluation of the Williams-Burnell  
reaction. Lab. Rep. No. 8 545-517 '64. (MIR- 17 12)



BELYAYEV, P.A.

Use of polyamides in sizing. Tekst.prom. no.2:56 F '63. (MIRA 16:4)

1. Nachal'nik Byuro tekhnicheskoy informatsii kombinata "Privolzhskaya kommuna".  
(Sizing (Textile)) (Polyamides)

OGARKOV, I.P.; BELYAYEV, P.A.; AL'MYASHEV, K.Kh.; BOL'SHAKOV, V.N.

Characteristics of 1957 tularemia outbreaks in the Ural Mountain  
region. Zhur.mikrobiol.epid.i immun. 31 no.9:131-134 S '60.  
(MIRA 13:11)

(URAL MOUNTAIN REGION--TULAREMIA)

BELYAYEV, P. A., BEZRUKOV, V. M., BURGANSKIY, B. K., KAPLINSKIY, M. B.,  
MATS, A. S. and SOLOMIN, N. N.

"Possible Vectors of Diseases with Natural Reservoirs in the Urals."

Tenth Conference on Parasitological Problems and Diseases with Natural  
Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of  
Sciences, USSR, Moscow-Leningrad, 1959.

Sverdlovsk

BELYAYEV, P. A., BEZRUKOV, V. M., BURDANSKIY, B. KH., KAPLITSKIY, M. B.,  
MITS, A. S., SOLOMIN, N. M.

"Epidemiological characteristics of diseases with Natural Foci  
in the Ural Mountains." p. 21

Desyatoye Soveshchaniye po parazitologicheskim problemam i  
prirodnootchegovym boleznyam. 22-29 Okt'yabrya 1959 g. (Tenth Conference  
on Parasitological Problems and Diseases with Natural Foci 22-29  
October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences  
USSR and Academy of Sciences USSR, No. 1 254pp.

MATS, A.S.; BURGANSKIY, B.KH.; BELYAYEV, P.A.; KAPLINSKIY, M.B.; BIZRUKOV, V.M.;  
KOPIT, Z.M.; GUSEV, N.P.

Features of the influenza epidemic of 1957 in the Urals and the adjacent  
areas; author's abstract. Zhur. mikrobiol. epid.i immun. 29 no.12:107-108  
D '58. (MIRA 12:1)

(URAL MOUNTAIN REGION--INFLUENZA)

BELYAYEV, P.A., inzh.

Experience in modernizing small peat-briquet factories. Torf.  
prom. 37 no.4:28-30 '60. (MIRA 13:7)

1. Votkinskoye torfopredpriyatiye "Siva."  
(Votkins--Briquets (Fuel)  
(Peat)

L 10014-67

ACC NR: AP6036173

space missions. The landing sequence has always been actuated by command from Earth and depended on data provided by ground-based computers. For interplanetary flights such an arrangement may prove to be ineffective due to the time lag involved in the transmission of a signal. Consequently, a special on-board data-processing unit will be included in the spacecraft equipment to handle flight data and to determine spacecraft coordinates and deflections from the precomputed path. The solar orientation system plays an important part in the landing procedure. Belyayev considers it to be simple and dependable.

SUB CODE: 22, 01/ SUBM DATE: none/ ATD PRESS: 5105

Cord

215 610

I. 10014-67 BMT(d)/FSS-2/BMP(m)/BEG(k)-2/BMT(1) IJP(c) AST/JKT/TI/GW  
 ACC NR: AP6036173 SOURCE CODE: UR/0209/66/000/011/0055/0059

AUTHOR: Belyayev, P. (Colonel; Pilot cosmonaut of SSSR; Hero of Soviet Union) 72.

ORG: none

TITLE: Like a meteor [Spacecraft landings on Earth and other planets]

SOURCE: Aviatsiya i kosmonavtika, no. 11, 1966, 55-59

TOPIC TAGS: manned spacecraft, interplanetary flight, spacecraft landing, automatic landing system, reentry control

ABSTRACT: The problem of landing a man on the moon, Mars and other planets of the solar system and how it differs from Earth reentry is discussed by cosmonaut Belyayev. There are two flight programs by which the moon can be approached, namely, by making a direct landing or by descending from a cislunar orbit. For landing on Mars and other distant planets the direct approach is considered to be inexpedient. For a safe approach and landing the flight velocity must be drastically reduced. Currently, two methods of braking are available: aerodynamic braking utilizing atmospheric drag; and the use of retroengines when an atmosphere is lacking. Reentries and landings on Earth have been executed by automatic landing systems, except during the Voskhod-2 landing, which was accomplished by means of manual controls. This latter experience shows that no matter how reliable an automatic landing system may be, the presence of a pilot-cosmonaut aboard a spacecraft is indispensable for the success of all manned

Card 1/2



DRUZHININ, M., polkovnik; KAPUSTIN, A., podpolkovnik; BELYAYEV, P., mayor

Abstracts implant a taste for theory. Komm. Vooruzh. Sil 4 no.16:  
74-75 Ag '64. (MIRA 17:10)

BELYAYEV, P.

Our cooperation with the United Arab Republic. Vnesh.torg. 43  
no.2:17-19 '62. (MIRA 16:2)  
(Egypt—Economic assistance, Russian)

BELIAYEV, P.

Aswan as a symbol of friendship among peoples. Vnesh.  
torg. 42 no.11:38-40 '62. (MIRA 15:11)  
(Aswan Dam)  
(Egypt--Technical assistance, Russian)

FONIN, V.D.; BELYAYEV, O.Ye.

Some problematic forms from the Pre-Cambrian series in the southern  
end of the Yerementau-Niyaz anticlinorium (central Kazakhstan). Biul.  
MOIP.Otd.geol. 35 no.4:151 J1-Ag '60. (MIRA 14:4)  
(Yerementau-Niyaz region--Paleontology, Stratigraphic)

BELYAYEV, O.Ye.

Discovery of problematic organic remains in quartzites and  
jasper quartzites in the Urtyndzhal'skoe series. Izv. vys.  
ucheb. zav.; geol. i razv. 3 no.6:121-122 Je '60.

(MIRA 14:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.  
(Organic matter) (Karaganda Basin—Quartzites)

BELYAYEV, O.N., otv. za vypusk

[Economy of North Kazakhstan Province; collected statistics]  
Narodnoe khoziaistvo Severo-Kazakhstanskoi oblasti; statisti-  
cheskii sbornik. Petropavlovsk, 1962. 206 p. (MIRA 15:10)

1. Severo-Kazakhstanskaya oblast'.  
(North Kazakhstan Province--Statistics)

POTYKEVICH, I.V.; BELYAYEV, O.N. [Biliaiev, O.M.]

Some optical properties of the ternary semiconducting compound  
 $\text{CdIn}_2\text{Te}_4$ . Ukr. fiz. zhur. 8 no.9:967-969 S '63. (MIRA 17:8)

1. Chernovitskiy gosudarstvennyy universitet.

L 47387-00A

ACC NR: AR6025760

0

sp<sup>3</sup> hybridization. [Translation of abstract].

SUB CODE: 20

hs

Card 2/2



1. 4787-66 EW(1) ENT(m)/I/EWP(t)/NTI TOP(c) 66/JD

ACC NR: AR6025760

SOURCE CODE: UR/0058/66/000/004/A075/A075

AUTHOR: Potykevich, I. V.; Belyayev, O. M.; Chapura, S. V. 353

TITLE: Growing of single crystal CdTe,  $\text{In}_2\text{Fe}_3$ , and  $\text{CdIn}_2\text{Te}_4$  and of single crystals of  $\text{CdTe-In}_2\text{Te}_3$  solid solutions, and some of their physical properties

SOURCE: Ref. zh. Fizika, Abs. 4A633

REF. SOURCE: Sb. Simpozium. Protsessy sinteza i rosta kristallov i plenok poluprovodnik. materialov, 1965. Tezisy dokl. Novosibirsk, 1965, 29-30

TOPIC TAGS: single crystal growing, cadmium containing alloy, tellurium containing alloy, indium containing alloy, iron containing alloy, solid solution

ABSTRACT: Results are presented of a comprehensive study of the production conditions, structure, and physical properties of binary compounds CdTe and  $\text{In}_2\text{Te}_3$  and of solid solutions on their basis. Questions dealing with the choice of optimal temperature regimes for single-crystal growth are considered. Of very great importance for the  $\text{CdTe-In}_2\text{Te}_3$  system is the choice of the most effective method of homogenization of the solid solutions. Particular attention is paid to synthesis and growth of crystals of the ternary semiconductor compound  $\text{CdIn}_2\text{Te}_4$ , which is obtained via a peritectic reaction in the investigated system and is a compound of the type  $\text{AB}_2\text{X}_4$  with

Card 1/2

ACC NR: AR6030496

SOURCE CODE: UR/0275/66/000/006/B015/B015

AUTHOR: Potykovich, I. V.; Bolyayev, O. M.; Chepura, S. V.

TITLE: Growing CdTe,  $\text{In}_2\text{Te}_3$ ,  $\text{CdIn}_2\text{Te}_4$  single crystals and CdTe- $\text{In}_2\text{Te}_3$  solid-solution single crystals and some of their physical properties

SOURCE: Ref. zh. Elektronika i yeyo primeneniye, Abs. 6B100

REF SOURCE: Sb. simpozium. Protsessy sinteza i rosta kristallov i plenok poluprovodnik. materialov, 1965. Tozisy dokl. Novosibirsk, 1965, 29-30

TOPIC TAGS: single crystal growing, semiconductor single crystal

ABSTRACT: An investigation of electrical, thermoelectric, magnetic, and photo-optical properties has permitted conducting and controlling the process of synthesis and growing CdTe and  $\text{In}_2\text{Te}_3$  single crystals and solid solutions based on them. X-ray diffraction data corroborated by the results of thermal analysis and micro-structural study has pointed up to a formation of solid solutions in the CdTe- $\text{In}_2\text{Te}_3$  system. Optimal temperature conditions for single-crystal growing are selected. The most efficient methods of homogenization of solid solutions, particularly in  $\text{In}_2\text{Te}_3$ -rich alloys, are very important in handling the CdTe- $\text{In}_2\text{Te}_3$  system. Special attention is paid to the synthesizing and growing the crystals of a little-known triple semiconductor compound  $\text{CdIn}_2\text{Te}_4$  which comes from a peritectic reaction in the above system and which belongs with the type  $\text{AB}_2\text{X}_4$  compounds with  $\text{SP}^3$ -hybridization. I. P. and others . [Translation of abstract]

SUB CODE: <sup>20</sup>~~11709~~

Card 1/1

UDC: 621.315.592:548.552:541.412

DOMRACHEV, N., otv. red.; PITIRIMOV, V., red - BELYAYEV, O.,  
red.; BIRYUKOV, G., red.; RUMYANTSEVA, V., red.;  
SOLODYANNIKOV, A., red.; TRAKHTENBERG, G., red.

[Give way to the new and the advanced] Dorogu novomu,  
peredovomu. Kirov, Izd-vo "Kirovskaya Pravda, 1961. 58 p.  
(MIRA 18:3)

1. Obshchestvo po rasprostraneniyu politicheskikh i nauch-  
nykh znaniy RSFSR. Kirovskoye oblastnoye otdeleniye.

BELYAYEV, Naum Zinov'yevich; SHLEZINGER, Mikhail Yur'yevich; FILIMONOV,  
I.M., red.; SHESTOPALOV, L.S., red.; KARYAKINA, M.S., tekhn.  
red.

[Manual for automobilists] Uchebnoe posobie shoferu-liubiteliu.  
Moskva, Izd-vo DOSAAF, 1961. 222 p. (MIRA 14:8)  
(Automobiles) (Traffic regulations) (Automobile racing)

BELYAYEV, Naum Zinov'yevich; FEDCHENKO, V., red.; MIKHAYLOVSKAYA, N.,  
tekhn.red.

[Know your automobile] Znakom'tes' - avtomobil'. [Moskva]  
Izd-vo TsK VLKSM "Molodaia gvardiia," 1957. 190 p. (MIRA 11:1)  
(Automobiles)

BELYAYEV, N.V., kand.med.nauk (Fergana)

Injectons with a "tubosyringe". Fel'd. i akush. 27 no.3:45-46 Mr  
'62. (MIRA 15:4)  
(SYRINGES)

BELYAYEV, N.V., podpolkovnik med.sluzhby, kand.med.nauk;  
KHUSNITDINOV, A., kapitan med.sluzhby

Erecting 3 tents (USB AND UST) into a single 3-section unit.  
Voen.-med.zhur. no.10:82-84 0 '61. (MIRA 15:5)  
(HOSPITALS, MILITARY)

BELYAYEV, N. V.

BELYAYEV, N. V. -- "On the Problem of Comparative Evaluation of Clinical-Biochemical Examinations of the Liver Before and After Treatment in Early syphilis." Tomsk State Medical Inst imeni V. M. Molotov. Tomsk, 1955. (Dissertation for the Degree of Candidate of Medical Sciences.)

SO: Knizhnaya letopis', No. 4, Moscow, 1956



BELYAYEV, N.V.; ASSONOV, A.D., kand. tekhn. nauk, retsenzent;  
KANTIN, Ya.A., inzh., red.; STEPANCHENKO, N.S., red. izd-  
va; GORDEYEVA, L.P., tekhn. red.

[Induction heating practices in forging] Praktika induktsion-  
nogo nagreva v kuznechnom proizvodstve. Moskva, Mashgiz,  
1963. 149 p. (MIRA 17:1)

BELYAYEV, N.V.

Electricity used in the induction heating of blanks in forge  
shops. Kuz.-shtam. proizv. no.4:36-39 Ap '61. (MIRA 14:3)  
(Forge shops--Equipment and supplies)  
(Induction heating)

New Photoelectric Spectroscopical Apparatus

SOV/48-23-9-24/57

and 1 Soviet reference.

ASSOCIATION: Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy  
promyshlennosti (Scientific Research Institute for the Tech-  
nology of the Automobile Industry)

Card 2/2

24(7) SOV/48-23-9-24/57  
 AUTHORS: Averbukh, M. M., Artsishevskaya, N. V., Belyayev, N. V.,  
 Yerina, I. I., Pen'kov, D. I., Strel'tsov, I. G.  
 TITLE: New Photoelectric Spectroscopical Apparatus  
 PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,  
 Vol 23, Nr 9, pp 1105 - 1107 (USSR)  
 ABSTRACT: In the present paper the apparatus of the types FESA-4 and  
 FESA-4M are described. The former consists of an arc generator  
 of the type DG-2, a three-lens condenser system, the optical  
 part of the spectrograph of the type ISP-52, the camera of the  
 type UF-84, the collimator of the type UF-61 and a system for  
 line separation with four outlet slits and four photoelectric  
 cells of the type STsV-4. The instrument is automatized and has  
 an error of less than 0.5%. A photograph of this apparatus is  
 shown by figure 1. The second apparatus described here consists  
 of four blocks, and differs from the first by the optical system  
 and by the form of its construction (Fig 2). The instrument makes  
 it possible to control the line intensities. The experiments  
 carried out by means of both apparatus with two different  
 materials are shown by two tables. There are 2 figures, 2 tables,

Card 1/2

BELYAYEV, N.V.  
BELYAYEV, N.V.; KHINA, M.L.

Using high-frequency heating for hardening semiaxles of the rear  
axle. Avt.1 trakt.prom. no.10:29-31 0 '57. (MIRA 10:12)

1. Moskovskiy zavod malolitrazhnykh avtomobiley.  
(Automobiles--Axles--Hardening) (Induction heating)

BELYAYEV, N.V.

Automatization and mechanization of induction heating in forging.  
Avt.i trakt.prom. no.4:30-32 Ap '57. (MLRA 10:5)

1.Moskovskiy zavod malolitrzhnykh avtomobiley.  
(Induction heating) (Forging) (Automatic control)

1. DELYAYEV, M.V., CHAYKOV, V.I.
2. USSR (600)
4. Inst. Bags
7. Br. Image plates: Tor. prom. 29 no. 11. 3/51

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Uncl.

BELYAYEV, N.V., dotsent

General toxicoderma: 'tis following acute poisoning caused by  
smoking Indian hemp. Vest. dermat. i ven. 38 no.3:77-78 Mr '64.  
(MIRA 18:4)

1. Kafedra kozhnykh i venericheskikh bolezney (zav. - prof. I.S.  
Beyrakh) Tomskogo meditsinskogo instituta.



BELYAYEV, N.V.

Chilling tomato seeds in fruits. Vop.fiziol.i biokhim.kul't.  
rast. no.1:28-32 '62. (MIRA 16:1)  
(Plants, Effect of temperature on)  
(Seeds) (Tomatoes)

BELYAYEV, N.V.

Effect of the chilling of tomato seeds on biochemical processes  
in plants. Vop.fiziol.i biokhim.kul't.rast. no.1:12-27 '62.  
(MIRA 16:1)

(Plants, Effect of temperature on)  
(Tomatoes) (Seeds)

BUDURIAN, N.N.; BELIAYEV, N.V.; KANDINA, G.V.

Some characteristics of metabolism in tomato seeds during the  
chilling period before planting. Vop.fiziol.i biokhim.kul't.  
rast. no.1:3-11 '62. (MIRA 16:1)

(Seeds) (Tomatoes)  
(Plants, Effect of temperature on)

SHUTOV, V.A. [deceased]; BELYAYEV, N.V.

Investigating the amino acid and carbohydrate composition of  
tomatoes grown from seeds subjected to cooling. Izv. Akad. fil.  
AN SSSR no. 4:3-16 '61.

(MIRA 17:30)

BELYAYEV, N.V.  
 USSR/Cultivated Plants - Technical, Oil and Sugar Plants. M-4

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10879  
 Author : Shutov, D.A., Belyayev, N.V.  
 Inst : Moldavian Branch of the Academy of Sciences USSR  
 Title : Freezing Cotton Seed Before Sowing.  
 Orig Pub : Izv. Moldavsk. fil. AN SSSR, 1956, No 2, 57-62

Abstract : In this experiment cotton 611 was grown in flower pots. Swollen cotton seeds react positively both to prolonged action of cold (10 days at 0°) and to short-term exposure (13 hours at -20°). Chilling the seeds does not accelerate development: budding [butonizatsiya] flowering, and opening of the pods. The plant's growing energy is heightened, as are its production of fruit and the total raw cotton yield. However the first pickings from the experimental plants were somewhat lower in yield than the

Card 1/2

5

BELYAYEV, N.V., mayor meditsinskoy sluzhby

Prevention of excessive perspiration of feet. Voen.-med.zhur. no.6:  
83-84 Je '51. (MIRA 9:9)  
(FOOT--CARE AND HYGIENE) (PERSPIRATION)

VICHTOMOVA-OSIPENKOVA, T.K., kand. med. nauk; BELYAYEV, N.S.

Closing the defects of the skull and the dura mater. Trudy Inst.  
im. N.V. Sklif. 8:154-157 '63. (MIRA 18:6)

1. Institut skoroy pomoshchi imeni Sklifosovskogo, Moskva.

BELYAYEV, N.S.

Primary and secondary alloplasty of the defects of the skull bones and the dura mater. Trudy Inst. im. N.V. Sklif. 8:77-82 '63. (MIRA 18:6)

1. Institut skorey pomoshchi imeni Sklifosovskogo, Moskva.



BELYAYEV, N. S.

Dissertation: "Development of Methods of Dissociation and Synchronization in the Broadcasting System of Color Television." Cand Tech Sci, Leningrad Electrical Engineering Inst of Communications, Leningrad, 1953.  
Referativnyy Zhurnal--Fizika, Moscow, May 54.

SO: SUB 284, 26 Nov 1954

Explosive decompression with ... 29387  
S/177/61/000/005/001/003  
D264/D305

case the symptoms of decompression trauma were even more marked. The author adduces two case histories of decompression at 8,000 and 7,000 meters respectively. He concludes that great caution must be exercised in passing flight personnel fit for flying, especially flyers with chronic ailments of the otorhinolaryngeal organs. He assumes that changes in the central nervous system, occurring as neurodynamic functional shifts, play a leading role in the pathogenesis of the reaction to explosive decompression. These shifts are caused by a powerful stream of impulses which enter the cerebral cortex from the extero- and intero-receptors, excited by sudden, powerful and unusual stimuli. As one of the measures against ill-effects from depressurization, crew members should be trained in the effects of explosive decompression on the body and the correct steps to take in the situation. X

SUBMITTED: December 1960

Card 3/3

Explosive decompression with ... <sup>29387</sup>  
 S/177/61/000/005/001/003  
 D264/D305

gradually diminished. The sensations of pain in the ears and head gradually diminished and in some cases ceased entirely while the plane maintained its height. As the plane reduced height, however, they sometimes reappeared. Medical examination upon landing showed residual symptoms of decompression trauma in some crew members. The author divides the crew members into two groups upon a criterion of the intensity of these symptoms. Group I contained persons where 1.5-2 hours had elapsed from decompression to the landing of the plane. No strong barotrauma was noted, but medical examination showed unusual fatigue and lassitude, a labile and rapid pulse, heightened reaction of the cardiovascular system to dosed physical loading (by 10-15%) and an arterial pressure heightened by 10-15 mm Hg. In some cases normally calm and controlled persons turned excessively active and lively, while sociable persons became silent. Group II contained persons where the plane landed within 30-50 minutes of decompression. In this

Card 2/3

29387

S/177/61/000/005/001/003  
D264/D305

272200

AUTHOR: Belyayev, N.P., Lieutenant-Colonel, Medical Corps

TITLE: Explosive decompression with cabin depressurization

PERIODICAL: Voenno-meditsinskiy zhurnal, no. 5, 1961, 72-75

TEXT: Due to the lack of published data on the clinical aspects of large atmospheric pressure drops, the author studied several cases of explosive decompression which ensued during high-altitude flights, due to the formation of defects in the pressurizing apparatus of the plane at heights ranging from 7,000 to 10,300 meters. The atmospheric pressure drop comprised about 1,000 mm Hg/Sec. All crew members felt general debility, fatigue, heaviness and pain in the head, and pain and noise in the ears. Some persons noted an unusual feeling of inflation of the intestines. After some time these phenomena

Card 1/3

X

BELYAYEV, N.P., podpolkovnik meditsinskoy sluzhby

Study of neurocirculatory dystonia in flying personnel. Voen.-med.  
zhur. no.5:77-80 My '60. (MIRA 13:7)  
(BLOOD--CIRCULATION, DISORDERS OF)  
(AVIATION MEDICINE)

SMIRNOVA, V.F., inzh.; ZOTOV, V.L., inzh.; Prinimali uchastiye: BELYAYEV,  
N.N.; OCHKASOVA, Z.P., inzh.

Coating of headwear with a nap finishing by means of the  
electrostatic method. Nauch.-issl. trudy TSNIIShersti  
no.17:124-126 '62. (MIRA 17:12)

1. Rukovoditel' laboratorii avotmatizatsii TSentral'nogo  
nauchno-issledovatel'skogo instituta sherstyanoy promyshlennosti  
(for Belyayev).

БЕЛЫЙ, Н.Н., инж.

Иссл. в обл. автоматизации процессов

Automatic control of the dyeing of wool tops in packing-type  
apparatus. Nauch.-issl. trudy TSNII Sherast: no. 17:96-102 '62.  
(MIRA 17:12)

VYACHESLAVOVA, Tat'yana Vasil'yevna, zasluzhennyy agronom RSFSR;  
BELYAYEV, Nikolay Nikolayevich; MAL'CHIKOVA, V.K., red.;  
PROSNOVA, V.A., tekhn.red.

[Correct crop rotation is the basis for high crop yields;  
from the practices of the Gatchina Variety Testing Station]  
Pravil'nyi sevooborot - osnova vysokikh urozhayev; iz opyta  
raboty Gatchinskogo sortouchastka. Leningrad, Lenizdat,  
1961. 61 p. (MIRA 15:2)  
(Gatchina District--Agricultural experiment stations)  
(Rotation of crops)



BELYAYEV, N.N., inzh.

Automation of the dyeing of wool fabrics. Nauch.-issl.trudy  
TSNII Shersti no.18:131-143 '63. (MIRA 18:1)

GAKEI<sup>1</sup>, R.A., kand.tekhn.nauk; Prinsipal'nyy uchastiyets KOVYAZINA, L.Ye.,  
mladshiy nauchnyy sotrudnik; BELYAYEV, N.N., Inzh. KUZNETSOV, R.N.;  
RYSEVA, S.N., mladshiy nauchnyy sotrudnik

Development of the technology for the manufacture of bulk yarn  
with the method of tow converting of synthetic fibers. Nauch.-  
issl.trudy TSNIShersti no.18-75-93 '63.

(MIRA 18-1)

VAKS, Ye.E., inzh.; Prinsipali uchastiye; ALESHIN, P.A., kand. tekhn. nauk;  
BELYAYEV, N.N., inzh.

Development and investigation of the thread regulator.  
Nauch.-issl. trudy TSNIIShersti no.16:54-58 '61. (MIRA 16:11)

L 02524-67

ACC NR: AT6020969

of experiments were made, one with water and one with glycerin. Results are shown in graphic form. Based on the experimental data the following results were achieved: 1) a relationship was obtained for the dimensionless height  $H_{cr}/d$  at which the funnel is ruptured; 2) the effect of viscosity on the value of  $H_{cr}/d$  was established at small values of the Reynolds number ( $Re < 700$ ); a qualitative determination was made of the effect of viscosity on the form of the free surface and the volume of a funnel without rotation in the discharge of a fluid. Orig. art. has: 7 formulas and 6 figures.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 003

Card 2/2 *egh*

L 02524-67 EWT(1)/EWP(m) WW

AIC NR: AT6020969

SOURCE CODE: UR/3207/65/000/002/0027/0032

AUTHOR: Belyayev, N. M.; Shandorov, G. S.

54

ORG: Dnepropetrovsk University (Dnepropetrovskiy universitet)

B+1

TITLE: The formation of funnels without rotation in the discharge of a fluid through bottom openings

SOURCE: Gidraeromekhanika, no. 2, 1965, 27-32

TOPIC TAGS: fluid flow, fluid dynamics VORTEX FLOW

ABSTRACT: The following empirical relationship has been previously proposed in the literature:

$$\frac{H_{cr}}{d} = 0.263 \left( \frac{W}{d} \right)^{0.846} \quad (1)$$

where  $H_{cr}$  is the level of water at which the funnel in the discharge pipe is ruptured;  $d$  is the diameter of the discharge pipe;  $W$  is the average flow rate in the discharge pipe. Experimental determinations were made in an apparatus consisting of a transparent cylindrical reservoir with a diameter of 250 mm and a height of 600 mm. The water was allowed to flow out through an opening in the bottom of the reservoir 4.2 mm in diameter and through a discharge pipe 2 meters long. Two series

Card 1/2

ACC NR: AR6025704

SOURCE CODE: UR/0196/66/000/004/G004/G005

AUTHOR: Belik, N. P.; Belyayev, N. M.; Shandorov, G. S.

TITLE: Calculating the emptying of a gas tank through a variable-cross-section port

SOURCE: Ref. zh. Elektrotehnika i energetika, Abs. 4G34

REF SOURCE: Gidraeromekhanika. Resp. mezhved. nauchno-tekhn. sb., vyp. 1, 1965, 3-7

TOPIC TAGS: gas flow, gas dynamics

ABSTRACT: A method is set forth for calculating the process of gas discharge from a constant-volume tank through a port whose cross-section varies with time; it is assumed that the discharge takes place at a supercritical pressure drop. The gas parameters in the tank due to heat exchange vary with a variable exponent of the polytrope. The method is developed on the basis of thermodynamic equations for variable-mass bodies under the assumption that the heat is transferred from surface to gas by free convection. It is shown that the process of gas tank emptying with an allowance for heat exchange can be calculated without determining the average exponent of the polytrope. Bibliography of 8 titles. Yu. Lashkov [Translation of abstract]

SUB CODE: 13, 20,

Card 1/1

UDC: 536.7

L 45771-66 EWT(m)/EWT(1)

ACC NR: AT6025827 (N) SOURCE CODE: UR/3207/65/000/001/0003/0007

AUTHOR: Belik, N. P.; Belyayev, N. M.; Shandorov, G. S.

60

ORG: Dnepropetrovsk University (Dnepropetrovskiy universitet)

B+1

TITLE: Calculating the process of evacuating the gas from a container through an opening of variable cross section

SOURCE: Gidraeromekhanika (Hydroaeromechanics), no. 1, Kharkov, Izd-vo Khar'kovskogo univ., 1965, 3-7

TOPIC TAGS: gas flow, thermodynamic process, isothermal flow, adiabatic process

ABSTRACT: The authors consider escape of gas from a reservoir of constant volume through a nozzle with a critical cross sectional area which varies in time assuming critical pressure drop in the container and in the atmosphere into which the gas is escaping. A method is developed for calculating this type of gas evacuation based on the use of thermodynamic equations for bodies of variable mass assuming that the temperature of the inner surface of the container is constant and that heat transfer from this surface to the gas takes place through free convection. General analytic formulas are derived for the thermodynamic process and the specific weight of the gas in the container and it is shown that expressions derived by other authors for adiabatic and isothermal processes are special cases of these formulas. Orig. art. has: 25 formulas.

SUB CODE: 20/ SUBM DATE: None/ ORIG. REF: 008

Card 1/1

BELYAYEV, Nikolay Mikhaylovich. Prinimali uchastiye: BELYAYEVSKIY,  
L.A.; KACHURIN, V.K.; KIPNIS, Ya.I.; KOZHEVNIKOV, I.A.;  
KUSHELEV, N.Yu.; SINITSKIY, A.K.; SMITKO, I.K., red.

[Collection of problems on the strength of materials] Sbornik  
zadach soprotivleniiu materialov. Izd.9., ispr. Moskva,  
Izd-vo "Nauka," 1965. 348 p. (MIRA 18:3)



L 17045-65  
ACCESSION NR: AF5001676

SUBMITTED: 15Apr64

NO REF SOV: 007

ENCL: 00

OTHER: 000

0  
SUB CODE: TD, HE

JPRS

Card 2/2

L 5045-63 EWT(1)/BPT(6)/DPT(2)-2/BPT/T/EPA(W)-2/EWA(1) Pr-4/Ps-4/Pu-4  
 LEND(2)/AFNDG W  
 ACCESSION NR: 020001616 E/C170/64/DCO/009/0025/0029

AUTHOR: Belik, N. P.; Bilyayev, N. M.; Shandrov, G. S.

TITLE: Computing the process of evacuation of a gas volume

SOURCE: Inzhenerno-Fizicheskiy zhurnal, no. 9, 1964, 23-29

TOPIC TAGS: convective heat transfer, thermodynamic equation, gas volume, gas evacuation

Abstract: The method given is based on the use of the equations of thermodynamics for bodies of variable mass. It is assumed that the temperature of the inside surface of the volume is constant, and that the heat transfer from this surface to the gas is by free convection. It is found that, for some parameters of the evacuation process, the equations are reduced to expressions for adiabatic and isothermal processes. Experimentally obtained data agree satisfactorily with the calculated results. Orig. art. has 1 figure and 22 equations.

ASSOCIATION: Gosudarstvennyy universitet im. 300-letiya vostoedineniya Ukrainy i Rossiiy, Dnepropetrovsk (Dnepropetrovsk State University)

Card 1/2

BELYAYEV, N.M.; SHANDOROV, G.S.

Reference: [illegible]

Determining the residual of liquids on internal walls and elements  
of emptied reservoirs. Izv.vys.ucheb.zav.; av.tekh. 6 no.3:  
118-121 '63. (MIRA 16:10)

БЕЛЫЙ, В. М.  
БЕЛЫЙ, В.

Rodina aviatsii; kratkie ocherki po istorii razvitiia aviatsii v  
Rossii. Moskva, Dosarm, 1950. 88 p., illus., ports.

Title tr.: The fatherland of aviation; brief historical sketches of  
the development of aviation in Russia.

TL526.R944

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of  
Congress, 1955.

BELYAEV, N. K.

"A genetic analysis of the colour patterns in the silkworm moth." (Bombyx Mori L.)  
Laboratory of Genetics and Selection, Rbilissi Institute of Sericulture, by Belyzev,  
N. K. (p. 51)

SO: Biological Journal (Biologicheskii Zhurnal) Vol. VI, 1937, No. 1

ACC NR: AP6035697

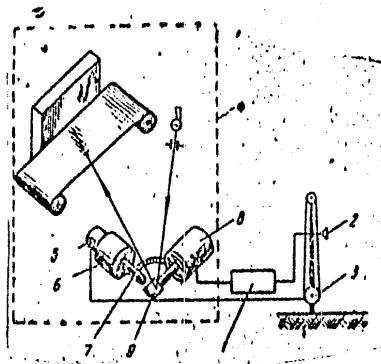


Fig. 1. 1 - remote control instrument;  
2 - antenna; 3 - synchronous follow-up  
system; 4 - photorecorder; 5 - selsyn  
receiver; 6 - reduction gear; 7 -  
reduction gear output shaft; 8 - microam-  
meter; 9 - mirror

output shaft. Orig. art. has: 1 figure.

SUB CODE: 09 17/

SUBM DATE: 27 Nov 64

Card 2/2

ACC NR: AP6035697

(A, N)

SOURCE CODE: UR/0413/66/000/019/0045/0045

INVENTOR: Belyayev, N. I.

ORG: none

TITLE: A device for controlling and recording the stability of radio beacon ranges.  
Class 21, No. 186533

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 45

TOPIC TAGS: bearing stability, radio beacon, recording equipment, remote control system, control system stability

ABSTRACT: This Author Certificate presents a device for controlling and recording the stability of radio beacon ranges. The device includes a remote control instrument, an antenna with a synchronous follow-up system, and a photorecorder with a mirror microammeter and selsyn receiver with a reduction gear (see Fig. 1). The design increases the control precision. The mirror microammeter in the device is fastened to the output shaft of the selsyn receiver reduction gear in such a way that the axis of rotation of the microammeter pickup loop is perpendicular to the axis of the reduction gear

Card 1/2

UDC: 621.396.933.23:621.396.664

L 06376-67

ACC NR: AR6014591

graphs, obtained from the data of radio-leveling. By comparing the altitudes obtained with the data from the technical leveling, mean errors were determined as:  $+1.35$ ,  $+1.8$ ,  $+1.1$  m, respectively. From the photographic maps so compiled right-of-ways of motor roads were projected. By applying the photogrammetric method of aerial photograph interpretation and by utilizing the areas of various forest-types together with the corresponding soil-types, lithological characteristics of the right-of-way were projected on the longitudinal road profiles. Design specifications for constructing motor vehicle roads and the methods for constructing the right-of-way are indicated by means of a legend of symbols. It is asserted that the volume of earthwork along the motor roads constructed throughout the year, as calculated from the profiles projected from photogrammetric materials, is somewhat smaller than that obtained from the level-survey data (by 5%). It is concluded that designing of forest lanes from photogrammetric materials can be accomplished without attempting special field geodetic work. I. Mityachkin [translation of abstract]

SUB CODE: 08

Card 2/2 *hh*



L 06376-67 FSS-2/EWT(1) LJP(c) JGS/GW

ACC NR: AR6014591

SOURCE CODE: UR/0270/65/000/012/0027/0027

AUTHOR: Belyayev, N. I.

TITLE: Compilation of project data for constructing forest lanes, based on  
photogrammetry, requiring no studies in situ

SOURCE: Ref. zh. Geodeziya, Abs. 12.52.247

REF SOURCE: Dokl. po vopr. aerofotos"yemki. Komis. aerofotos"yemki i fotogrammetrii  
Geogr. o-va SSSR, vyp. 1, 1964, 14-23

TOPIC TAGS: geodesy, geodetic survey, access road, road, forestry

ABSTRACT: Research conducted by the institute "Giprolestrans" in 1961-1962 on the utilization of aerial photographs in the planning and construction of forest lanes is described. Photographic maps to the scale of 1 : 5000 were prepared from aerial photographs to the scale of 1 : 7000. These photographs were made with the camera AFA-TE ( $f_h = 200$  mm) with gyroscopic stabilizing equipment N-55 manufactured by RVTB, and with a statoscope S-51. A topographic map to the scale 1 : 25 000 was used as a geodetic planimetric base. Elevations were projected with an SD-1 from a previously prepared elevation base for a map to the scale of 1 : 25 000 on a topographic stereometer, using basic data calculated from the elements of mutual orientation, and also on an SD-1 from the altitude data for the central points of aerial photo-

Card 1/2

UDC: 528.74:634.92

BELOV, Sergey Vasil'yevich, doktor sel'khoz. nauk; DMITRIYEV, Ivan  
Dmitriyevich, dots.; KULOISOVA, Anna Yevmen'yevna, dots.,  
BELYAYEV, N.I., retsenzent; KIRILLOVA, L.D., red.;  
URITSKAYA, A.D., tekhn. red.

[Aerial photographic surveying and aviation in forest manage-  
ment] Aerofotos'emka i aviatsiya v lesnom khoziaistve; uchebnoe  
posobie dlia studentov lesokhoziaistvennogo fakul'teta. Pod ob-  
shchei red. S.V. Belova. Leningrad, Vses. zaochnyi lesotekhn.  
in-t, 1962. 256 p.  
(MIRA 16:10)

1. Nachal'nik otdela aerofotolayskaniy Gosudarstvennogo instituta  
po proyektirovaniyu lesnogo transporta (for Belyayev).  
(Aerial photogrammetry) (Aeronautics in forestry)  
(Forest management)

~~BELYAYEV, N.I.~~

Accuracy of large-scale maps compiled by the stereotopographic  
method. Geod.i kart. no.2:50-52 F '62. (MIRA 15:3)  
(Aerial photogrammetry)

KOLOSOVA, Anna Yevmen'yevna, starshiy nauchnyy sotrudnik; BELYAYEV, Nikolay Iosifovich, inzhener lesnogo khozyaystva; DANICHEV, Mikhail Prokof'yevich, inzhener lesnogo khozyaystva; BARANOV, N.I., redaktor; ARNOL'DOVA, K.S., redaktor izdatel'stva; KARASIK, N.P., tekhnicheskii redaktor

[Use of enlarged small scale aerial photographs in forest mensuration work] Ispol'zovanie uvelichennykh melkomasshtabnykh aerofotom pri lesouchetnykh rabotakh. Moskva, Goslesbumizdat, 1956. 56 p. (MLRA 9:12)

1. Tsentral'nyy nauchno-issledovatel'skiy institut lesnogo khozyaystva (for Kolosova)
  2. Leningradskiy otryad lesnoy aerofotostenki (for Belyayev, Danichev)
- (Photography, Aerial) (Forests and forestry--Mensuration)

SAMOYLOVICH, G.G., prof.; BELYAYEV, N.I., inzh.; KUDRITSKIY, D.M., dots.; GLAGOLEV, A.V., inzh.; NEFEDOV, P.M., inzh.; GALKINA, Ye.A., st. nauchn. sotr.; PLINK, L.I., inzh.; DONSKOY, I.P., prof., retsenzent; SAVEL'YEV, V.V., kand. tekhn. nauk, dots., retsenzent; ALYSHEV, I.F., kand. tekhn. nauk, dots., retsenzent; LOBANOV, A.N., prof., doktor tekhn. nauk, retsenzent; DOROKHOV, B.A., inzh., red.

[Use of aerial photographic surveying in forest engineering]  
Primenenie aerofotos"emki v lesoinzhenernom dele. Moskva, Lesnaya promyshlennost', 1965. 354 p. (MIRA 18:10)

1. Kafedra sukhoputnogo transporta lesa Lesotekhnicheskoy akademii im. S.M.Kirova (for Alyshev). 2. Zamestitel' glavnogo inzhenera Gosudarstvennogo instituta po proyektirovaniyu lesnogo transporta (for Dorokhov).

BELYAYEV, N.I.

KIL'MAN, Ya.I., kandidat tekhnicheskikh nauk.; BELYAYEV, N.I., inzhener.

Utilizing low potential heat from waste steam. Prom. energ. 12  
no.4:16-18 Ap '57. (MLRA 10:5)  
(Steam) (Nitrogen industries)

BELYAYEV, M.

CHINA/Chemical Technology. Chemical Products. Elements. Oxides.  
Mineral Acids. Bases. Salts.

H-8

Abs Jour : Ref Zhur - Khimiya, 1958, No 22, 74523

Author : Belyayev M.  
Inst : Not Given

Title : Higher Productivity of Plants Manufacturing Weak Nitric Acid

Orig Pub : Khua-syuo shitse, 1957, No 12, 537-539

Abstract : For a complete translation see Ref. Zhur.-Khimiya, 1958,  
15082

Card : 1/1

BELYAYEV, N.I.

BELYAYEV, N.I.

Intensification of processes for the production of weak nitric acid.  
Khim.prom. no.4:214-219 Je '57. (MLRA 10:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut  
azotnoy promyshlennosti.

(Nitric acid)



BE LYAYEN, N.I.

27  
Manufacture of weak nitric acid, M. A. Mikhovskii and  
N. I. Belikov. *Chem. Review* 1, 581-6 (1955).  
Review: J. Bascom

3  
REV-1

RT

ILLEGIBLE

| 1ST AND 2ND COLUMNS                                    |  | PROCESS AND PROPERTIES INDEX                                                                                                        | 3RD AND 4TH COLUMNS |
|--------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <p><i>Handwritten:</i> <b>CA</b></p>                   |  | <p><b>Bubble tower plate. N. I. Belyaev and P. A. Platonov.</b><br/> <b>Russ. 59,870, April 30, 1941. Construction details.</b></p> |                     |
| <p>ASB-51A METALLURGICAL LITERATURE CLASSIFICATION</p> |  |                                                                                                                                     |                     |
| <p>1ST AND 2ND COLUMNS</p>                             |  | <p>3RD AND 4TH COLUMNS</p>                                                                                                          |                     |

| 1ST AND 2ND ORDERS                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  | 3RD AND 4TH ORDERS             |  |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--------------------------------|--|--|--|--|--|--|--|--|--|
| COMMON ELEMENTS                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  | PROCESSES AND PROPERTIES INDEX |  |  |  |  |  |  |  |  |  |
| Ca                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  | 1                              |  |  |  |  |  |  |  |  |  |
| <p>Possible errors in the determination of calcium and magnesium. N. I. Belyayev, <i>Zavodskaya Lab.</i> 3, 462-3 (1934).—The high values for Ca and Mg and correspondingly low values for K and Na obtained in the analysis of waters and soil extrs. by the Palmer method were traced to poor Russian filter paper. Chas. Blanc</p> |  |  |  |  |  |  |  |  |  |                                |  |  |  |  |  |  |  |  |  |
| ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  | B-2                            |  |  |  |  |  |  |  |  |  |
| WATERMAN'S NOTE                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  | B-2                            |  |  |  |  |  |  |  |  |  |
| 1ST GROUP                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  | 2ND GROUP                      |  |  |  |  |  |  |  |  |  |
| 3RD GROUP                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  | 4TH GROUP                      |  |  |  |  |  |  |  |  |  |

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[Speech at the 20th Congress of the CPSU, February 21, 1956] Promova  
na XX z'izdi KPRS, 21 liutoho 1956. Kyiv, Derzh. vyd-vo polit.  
lit-ry 1956. 20 p. port. (MIRA 11;11)  
(Agriculture--Economic aspects)

LEUTSKIY, K.M., prof., otv. red.; KALYUZHNIY, I.F., dots., red.;  
LISHCHENKO, N.A., dots., red.; BYKOVA, O.Ye., kand. filol.  
nauk, red.; GOROKHOVA, Z.N., dots., red.; TOKMAKOV, A.I.,  
dots., red.; DOMBROVSKIY, A.V., dots., red.; BELYAYEV, N.G.,  
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ILLEGIBLE

BELYAYEV, N.A.

Photoelectric determination of the geodetic azimuth by a direct  
method. Geod. i kart. no.9:13-17 S '64.

(MIRA 17:12)



12945-65  
ACCESSION NO. APA 61333

observations were made at night. Analyses of these data are reported as follows: the mean square error of one determination of square-wave signals from 10 flashes of a neon tube was  $\pm 0^{\circ}.0023$  and that in deriving the delay of the sinusoidal signals,  $\pm 0^{\circ}.003$ ; the error in deriving the mean moment of the time of radio signal reception from the tape recordings of 10 signals was of the order of  $\pm 0^{\circ}.003$ ; the error of the photoelectric determination of clock corrections from one Feinger pair was  $\pm 0^{\circ}.023$  (transit rotated in azimuth by an electric motor) and  $\pm 0^{\circ}.013$  (manually rotated); the error of the mean moment of a Feinger pair (summer) was  $\pm 0^{\circ}.011$ , varying between  $\pm 0^{\circ}.009$  and  $\pm 0^{\circ}.014$  for various averagings depending on the star image scintillation; the error in deriving one longitude averaged  $\pm 0^{\circ}.018$ , and that of latitude determination using one Pavlov pair was about  $\pm 0^{\circ}.33$ . Orig. art. has: 5 tables.

ASSOCIATION: none

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AUTHOR: Belyayev, A. A.

TITLE: Determination of longitude and latitude with field-type photoelectronic apparatus

SOURCE: Geodesiya i kartografiya, no. 6, 1964, 12-17

TOPIC TAGS: geodetic position determination, photoelectronic geodetic apparatus, longitude determination, latitude determination

ABSTRACT: Experiments were carried out by the Glushko vostochny Tsentral'nyy nauchno-issledovatel'skiy institut geodesii, aerofotografii i kartografii (the Service of the Central Scientific-Research Institute of Geodesy, Aerial Photography, and Cartography) in 1955-1960 to test the accuracy of longitude and latitude determinations made with means of the PPU photoelectronic apparatus. Longitudes were determined by the Peinger method and latitudes, by the Pervov method using AU 2/10 universal instruments. Longitudes were derived on the basis of radio line signals recorded on tape, clock corrections and delay times being made photoelectronically. All

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BELYAYEV, N.A.

Determining latitude and longitude with a field photoelectric  
unit. Geod. i kart. no.6:12-17 Je '64. (MIRA 17:9)